Date: Wed, 30 Mar 94 12:42:29 PST

From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>

Errors-To: Info-Hams-Errors@UCSD.Edu

Reply-To: Info-Hams@UCSD.Edu

Precedence: Bulk

Subject: Info-Hams Digest V94 #347

To: Info-Hams

Info-Hams Digest Wed, 30 Mar 94 Volume 94 : Issue 347

Today's Topics:

AEA Hot Rot whip for HT
AO-13 operating schedule notations
Canadian Reciprocal Licences
DSP filters

HDN Releases (2 msgs)

HELP! The FCC will not issue me a ham license
HELP: Anyone know what a XR2206 chip is? (2 msgs)
How phasing SSB Exciters Work (Was: RF and AF speech processors)

Tritornot Callbook

Internet Callbook

METEOR SCATTERING - Companies involved...?

obscenity...

Obscenity on ham bands Repeater Info The FCC Rule Book

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu> Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu> Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Tue, 29 Mar 1994 07:34:55 -0500

From: pacbell.com!sgiblab!sgigate.sgi.com!olivea!charnel!yeshua.marcam.com!usc!

howland.reston.ans.net!agate!dog.ee.lbl.gov!hellgate.utah.edu!cc.usu.edu!

sy_j.pgh.wec.com!user@@ihnp4.ucsd.edu

Subject: AEA Hot Rot whip for HT

To: info-hams@ucsd.edu

I recently purchased an AEA HotRod 1/2 wave whip antenna from Kevin Jensen N1KCG from rec.radio.swap. He used it in his htx202 and said it was

working.

However, when I got the antenna and connected it to my antenna, I did not get better coverage with the hotrod compared to the htx202 rubber duck antenna.

In fact it was worse, what I can reach with the rubber duck antenna, the hotrod antenna cannot.

I do believe Kevin when he said it was working with his ht (although he did not respond to my email when I asked him how come it was not working on mine).

Is there any tuning or fix I can do to make this antenna work ? or was I sold

a broken antenna ? I can still hit repeaters that are very close. I tested

it on an swr meter and its swr is > 3, my rubber duck is < 1.5 !

please email replies if possible thanks in advance

jerry N3RKD

Date: Tue, 29 Mar 1994 15:04:47 GMT

From: ihnp4.ucsd.edu!pacbell.com!sgiblab!swrinde!cs.utexas.edu!math.ohio-

state.edu!magnus.acs.ohio-state.edu!usenet.ins.cwru.edu!eff!news.kei.com!world!

eac@network.ucsd.edu

Subject: A0-13 operating schedule notations

To: info-hams@ucsd.edu

In <"28-Mar-94.15:15:58.EST".*.mark_t._phillips.henr801c@Xerox.com>
mark_t._phillips.henr801c@xerox.COM writes:

>Received: from rigel (rigel.eso.mc.xerox.com) by zombi.eso.mc.xerox.com > (4.1/SMI-4.1) id AA28634; Mon, 28 Mar 94 15:15:54 EST

>Can someone tell me what is meant by the "MA" numbers listed with AO-13 >operating schedules? They look like this:

>Mode-B: MA 0 to MA 90

>I understand the meaning of the "modes" (tho I'm not familiar with >Mode-BS).

The ma is mean anomaly. In this case it is mod 256. 0 is the lowest point in the orbit and 128 is the highest. Satellite tracking programs sometimes call this Phase.

I believe BS is mode B with the Mode S beacon operating. Due to a problem the mode S transponder and mode S beacon can not be on at the same time.

73 Eric WB1HBU AMSAT-UK AMSAT-NA (Numbers available on Request).

Date: Tue, 29 Mar 1994 15:34:29 GMT

From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!utnut!torn!newshub.ccs.yorku.ca!

apogee.ccs.yorku.ca!edleslie@ames.arpa
Subject: Canadian Reciprocal Licences

To: info-hams@ucsd.edu

Harris, Bob G. (R.G.Harris@sheffield-hallam.ac.UK) wrote:

: The licence issuers in the US seem to take a real pasting from many people

: in the US for their long delays. I've got to say that the Canadians at

: Industry Canada, are so fast it is hard to believe.

Just to make those in the US even greener, I called Industry Science Canada back in November, to find out if I had passed the test. I had, so I drove down to the office here in Toronto, filled out the papers, paid my fee, and walked out with a temporary licence permit and my call letters. The actual licence arrived in the mail a few weeks later.

How's that for fast! :-)

73 de Ed / VE3ZVZ

Date: 30 Mar 94 17:55:58 GMT From: news-mail-gateway@ucsd.edu

Subject: DSP filters To: info-hams@ucsd.edu

>DSPs are proving to be peculiar creatures. Some people like them and >some don't. I found out for \$359.00 that I'm one of the ones that >don't. I never could get used to the sound. Yes, they do reduce white >noise and ARE extremely effective on heterodynes, but they add a strange >digital ringing kind of sound of their own.

>The best thing is to listen verrry carefully to one before you buy. >Don't even think of buying one un-listened to unless you have \$\$ to

>throw away.

>W7LZP

I don't have any of these problems that you mention, but it took me a day of playing around with it to get used to it. I found that I could pretty much eliminate any unusual sound effects by using my Icom 735's RIT and passband tuning in conjunction with the DSP filter. In other words, just sending "raw" audio to the filter produced mixed results, but by using the rig's features to enhance the audio that the filter receives, the filter performs very well.

By the way, I built the DSP filter kit sold by Quantics. This is a circuit designed by W9GR, and is almost the same filter that is sold ready-to-go by J-comm. Price for the kit is \$125 plus \$7 shipping. Very high-quality kit. For more info on this kit, see the article "Build Your Own Station Accessories" in QST a couple of issues ago.

73 de KB2PWM (Steve Goldstein)

Date: Sat, 26 Mar 1994 13:24:06

From: elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!convex!seas.smu.edu!rwsys!ocitor!

FredGate@ames.arpa
Subject: HDN Releases
To: info-hams@ucsd.edu

The following files were processed Saturday 3-26-94:

```
HAMLOG [ HAM: Amateur radio logging programs ]

SWL120.ZIP ( 340804 bytes) Shortwave logging program. Write qsl's in 9-languages.

WXFAX1_2.ZIP ( 122870 bytes) Weather Facsimile Database Program, V1.2.
```

```
HAMNEWS [ HAM: Bulletins and Newsletters ]
```

463674 bytes in 2 file(s)

ANART801.ZIP (5496 bytes) ANART Bulletin #801 03/20/94.

ARLB027.ZIP (1545 bytes) ARRL Bulletin 03/22/94.--- FMail 0.96

* Origin: Com Port 1 - DFW Amateur Radio BBS (1:124/7009)

Date: Sun, 27 Mar 1994 18:21:08 From: ihnp4.ucsd.edu!pacbell.com!sgiblab!sgigate.sgi.com!olivea!charnel! yeshua.marcam.com!usc!howland.reston.ans.net!cs.utexas.edu!convex!seas.smu.edu! rwsys!ocitor!FredGate@network.ucsd.edu Subject: HDN Releases To: info-hams@ucsd.edu The following files were processed Sunday 3-27-94: HAMMODS [HAM: Radio and equip modifications] FRGSC123.ZIP (35215 bytes) FRG-9600 scanner control program V1.23. 35215 bytes in 1 file(s) HAMNEWS [HAM: Bulletins and Newsletters] ARLB028.ZIP (1559 bytes) 03/24/94 - FCC Call sign update. ARLD016.ZIP (1323 bytes) ARRL DX Bulletin 03/24/94. ARLD017.ZIP (2618 bytes) ARRL DX Bulletin 03/24/94. ARLP012.ZIP (2013 bytes) ARRL Propagation Bulletin 03/25/94. RTTY0325.ZIP (2325 bytes) RTTY DX Bulletin 03/25/94. 9838 bytes in 5 file(s) HAMSAT [HAM: Satellite tracking and finding programs] ARLK012.ZIP (2829 bytes) ARRL Keplerian elements 03/26/94. 2829 bytes in 1 file(s) HAMSCAN [HAM: Scanner Freqs and Freq database programs] ______ LA_NEWS.ZIP (1649 bytes) Los Angeles Radio/Television News frequencies.

1649 bytes in 1 file(s)

```
HAMSRC
         [ Ham: Program Source Code ]
______
DSPMORSE.ZIP ( 51386 bytes) Improved FFTMorse, copy cw with
                            soundblaster. 'C' source and header
                            files included.
              51386 bytes in 1 file(s)
Total of 100917 bytes in 9 file(s)
Files are available via Anonymous-FTP from ftp.fidonet.org
IP NET address 140.98.2.1 for seven days. They are mirrored
to ftp.halcyon.com and are available for 60-90 days.
   Directories are:
        pub/fidonet/ham/hamnews (Bulletins)
                      /hamant
                                (Antennas)
                      /hamsat
                                (Sat. prg/Amsat Bulletins)
                      /hampack (Packet)
                      /hamelec (Formulas)
                      /hamtrain (Training Material)
                      /hamlog
                                (Logging Programs)
                      /hamcomm (APLink/JvFax/Rtty/etc)
                      /hammods (Equip modification)
                      /hamswl
                                (SWBC Skeds/Frequencies)
                      /hamscan (Scanner Frequencies)
                      /hamutil (Operating aids/utils)
                                (Source code to programs)
                      /hamsrc
                      /hamdemo (Demos of new ham software)
                      /hamnos
                                (TCP/IP and NOS related software)
Files may be downloaded via land-line at (214) 226-1181 or (214) 226-1182.
1.2 to 16.8K, 23 hours a day .
When ask for Full Name, enter: Guest; guest <return>
lee - ab5sm
Ham Distribution Net
 * Origin: Ham Distribution Net Coordinator / Node 1 (1:124/7009)
```

Date: Tue, 29 Mar 1994 15:33:17 GMT

From: agate!howland.reston.ans.net!europa.eng.gtefsd.com!emory!news-

feed-2.peachnet.edu!concert!hearst.acc.Virginia.EDU!murdoch!

galen.med.Virginia.EDU!jwh7k@ames.arpa

Subject: HELP! The FCC will not issue me a ham license

To: info-hams@ucsd.edu

On December 18, 1993, I took an ARRL test session and earned a Technician w/HF license. During the week of February 20th, other people that were at the December 18th test session were receiving their new licenses. After waiting a week, I called the ARRL to see what was going on. They had received my paper work and sent it on to the FCC on January 6th. The gentleman I talked at the ARRL said that licenses from the same test session are not always issued together. After waiting another week, I talked to some experienced local hams and was told to call the FCC. On March 3th, I called the FCC and asked the status of my license. The person I talked to said they have received the paper work from the ARRL, but mine was pulled for some problem. I could not get an answer as to what the problem was with my application. After I reported this information to the local hams, they said to wait and hope the FCC will sort it out. Well, I have waited and no license. It will be 90 days on April 6th since the FCC has had my application. This is my first ham license, I have _not_ had a ham license canceled by the FCC. Does anyone have any ideas what I can do to resolve this problem and finally get a license?

Many thanks for any help and 73

- -

<<<<<<<<<<<<<<<<<

The Cyberspace Cowboy(TM) riding the electronic frontiers... Bill Holman, Clinical Robotics Lab, jwh7k@virginia.edu, (804) 924-8109 Box 168, UVa Health Sciences Center, Charlottesville, VA, 22908

Date: Tue, 29 Mar 1994 14:50:35 GMT

From: agate!howland.reston.ans.net!news.cac.psu.edu!news.pop.psu.edu!ra!s6550b!

colbert@ames.arpa

Subject: HELP: Anyone know what a XR2206 chip is?

To: info-hams@ucsd.edu

In article <2n8crrINN451@life.ai.mit.edu>, ceb@synergy.ai.mit.edu (Christopher Barnhart) writes:

|> In article <CnEFCs.Hso@demon.co.uk>, zawada@softage.demon.co.uk (A Gnome On A Mission) writes:

|> |> Help, has anyone out there heard of a chip XR2206?

|> .

|> .

|> .

```
|> |> Mark Simpson
1>
> This device is a Monolithic Function Generator made by EXAR.
|> Don't know where do get them anymore. I think EXAR died or
> or was purchased by someone. Expect the part number of have the
|> same numbers but change its prefix.
|>
|> It should be inexpensive ($10 or less).
|> I do know of a supplier that stocks old - hard to find stuff.
|>
|> Chris
Exar is still alive and kicking. I bought som multipliers from them
last week. As for the XR2206, JimPak actually sells it in their line.
You can probably get it from JDR Electronics.
Mike Colbert
NRL
colbert@s6550b.nrl.navy.mil
Date: Tue, 29 Mar 1994 13:43:30 GMT
From: ihnp4.ucsd.edu!pacbell.com!sgiblab!wetware!spunky.RedBrick.COM!psinntp!
psinntp!arrl.org!zlau@network.ucsd.edu
Subject: HELP: Anyone know what a XR2206 chip is?
To: info-hams@ucsd.edu
A Gnome On A Mission (zawada@softage.demon.co.uk) wrote:
: Help, has anyone out there heard of a chip XR2206?
: 1. Has it got an equivalent chip I can use instead?
I don't think so, it is a special purpose chip.
: 2. About how much is it?
Probably as much as it costs for shipping and handling...
: 3. Give me an address anywhere (any country), I can order it from.
In the USA, JDR Microdevices
2233 Samaritan Drive
San Jose CA 95124
In the UK, you might try Mainline Electronics
```

PO Box 235 Leichester LE2 9SH (0533) 777648

- -

Zack Lau KH6CP/1 2 way QRP WAS

8 States on 10 GHz

Internet: zlau@arrl.org 10 grids on 2304 MHz

Date: 30 Mar 94 17:32:38 GMT

From: hp-cv!hp-pcd!hpcvsnz!tomb@hplabs.hp.com

Subject: How phasing SSB Exciters Work (Was: RF and AF speech processors)

To: info-hams@ucsd.edu

Alan Bloom (alanb@sr.hp.com) wrote: (concerning the generation of quadrature phase audio signals)

: But the hard part is getting the ampltude and phase matching

: to within a fraction of a dB or degree. As explained above, if you

: do that, the overall amplitude and delay response versus frequency

: will be quite good.

So, just how good is a practical network?

In some recent ARRL pubs (e.g., ARRL Handbook, 1987, pg 18-9) there's a "matrix" type of phase shift network that claims to be able to give good performance with loose-tolerance parts. I put this network into Spice last nite, and thought some might be interested in the results. Below are four columns plus a frequency column. The second column is phase of one output channel. The third is that phase with a constant 235 degrees and a ramp at -.066 degrees/Hz taken out. The fourth is the magnitude frequency response for that channel. The fifth is the magnitude frequency response with an additional 5-pole Butterworth low-pass at 3kHz and 5-pole Butterworth high-pass at 320Hz, to limit the audio passband to the 300Hz-3kHz voice band.

(I hope tabs in the table won't make it unreadable at too many sites.)

phase filtered

freq phase error mag mag Hz degrees degrees dB dB 200 -193.5 54.6 2.2 -8.4 230 -203.8 46.4 1.9 -6.1 264 -214.0 38.4 1.6 -4.0 303 -224.4 30.6 1.3 -2.3 348 -234.9 23.1 1.0 -1.2 400 -245.6 15.8 0.7 -.5 459 -256.5 8.8 .5 -.1 527 -267.6 2.3 .3 0 606 -278.8 -3.8 .2 0

```
696 -290.2 -9.2 .1 0

800 -301.6 -13.8 0 0

919 -313.1 -17.4 0 -.1

1056 -324.5 -19.9 0 -.1

1213 -335.9 -20.9 0 0

1393 -347.1 -20.2 .1 0

1600 -358.4 -17.8 .2 0

1838 -369.5 -13.2 .4 0

2111 -380.4 -6.1 .6 -.1

2425 -391.1 3.9 .8 -.5

2786 -401.7 17.2 1.1 -1.2

3200 -411.8 34.3 1.3 -2.4

3676 -421.5 56.1 1.6 -4.1
```

Note: I didn't calc the phase error including the Butterworth filters, which are NOT linear phase, but better than the Chebyschev typically approximated in a crystal filter.

The exact meaning of the "phase error" column is certainly open to discussion, but to me it's obvious that it's a very low error, and quite smooth with frequency. And both the magnitude columns show extremely good flatness in the voice band: particularly the one including the out-of-band audio filters.

I didn't include columns about the phase and amplitude difference between the channels, but it's a very close match in both.

(I hope to follow this with another followup about actually achieving 90 degree phase differentials with a finite number of poles and zeros, but that will have to wait for now.)

Date: 30 Mar 94 17:33:25 GMT From: news-mail-gateway@ucsd.edu

Subject: Internet Callbook To: info-hams@ucsd.edu

Hello everyone:

There is an Internet accessible call sign server sponsored by the Rhode Island 2x2 Amateur Repeater Association, in the Anomaly Amateur Radio Server:

telnet ns.risc.net (155.212.2.2) login:hamradio (BuckMaster and Buffalo Callbooks on line)

73 & DX de XE1RGL.

Date: Tue, 29 Mar 94 16:46:43 -0500

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!noc.near.net!news.delphi.com!

usenet@network.ucsd.edu

Subject: METEOR SCATTERING - Companies involved...?

To: info-hams@ucsd.edu

Can anyone tell me of companies or organizations involved in communications using meteor scattering techniques?

Warren Doud doud@galileo.tracor.com

Date: 29 Mar 1994 15:11:13 GMT

From: agate!boulder!csn!col.hp.com!news.dtc.hp.com!hpscit.sc.hp.com!

spikes@ames.arpa
Subject: obscenity...
To: info-hams@ucsd.edu

Hmmmmm, I've been TOLD that these language-impaired bozos were just the guardians of the 'official' tune-up and testing frequencies.

Bill wb6rzg

"What load, dummy?"

Date: 30 Mar 1994 16:43:24 GMT

From: nothing.ucsd.edu!brian@network.ucsd.edu

Subject: Obscenity on ham bands

To: info-hams@ucsd.edu

In article <slayCnEC6z.KDF@netcom.com> slay@netcom.com (Sandy Lynch) writes: >Unfortunately - that might be the case. Try listening on the CW bands. >You will rarely, if ever, hear that kind of language.

You're absolutely right - when I tuned down to the CW bands, I didn't hear bad language. I didn't hear any language at all - just a bunch of beeping noises.

I guess they could be called obscene beeping noises, but that's really

in the mind of the beholder.
 - Brian

Date: 29 Mar 94 22:14:19 GMT

From: ncrgw2.ncr.com!ncrhub2!tdbunews!nsc32!wps@uunet.uu.net

Subject: Repeater Info To: info-hams@ucsd.edu

I would like to know if there are linked repeaters (2m or 70cm) in the LA area. I know of the LA linked system, I can get access at home via Sulphur Mountain (WB6ZTU - 447.325). This allows one to QSO up and down California. I was wondering if any one knows of another system? I do know there is CONDOR on 220, but I don't know if there are any repeaters that are cross-linked from 2m or 440 into that system.

tnx,

Bill

Bill Starkgraf wps@ElSegundoCA.ncr.com

AT&T Global Information Solutions (310) 524-5754

El Segundo, CA (800) 222-8372 x5754

Call: KD6UQB Simi Settlers ARC Simi Valley, CA

Date: 29 Mar 94 21:41:47 GMT

From: ncrgw2.ncr.com!ncrhub2!tdbunews!nsc32!wps@uunet.uu.net

Subject: The FCC Rule Book To: info-hams@ucsd.edu

Try your local Ham dealer. That's where I saw them here in the LA Area.

Bill

Bill Starkgraf wps@ElSegundoCA.ncr.com

AT&T Global Information Solutions (310) 524-5754

El Segundo, CA (800) 222-8372 x5754

Call: KD6UQB Simi Settlers ARC

Simi Valley, CA

	• •		

Date: Tue, 29 Mar 1994 19:26:07 GMT

From: ihnp4.ucsd.edu!galaxy.ucr.edu!library.ucla.edu!europa.eng.gtefsd.com! howland.reston.ans.net!news.intercon.com!uhog.mit.edu!sgiblab!pacbell.com!uop! csus.edu!netcom.com!greg@network.ucsd.

To: info-hams@ucsd.edu

References <2n7k21\$i6d@geraldo.cc.utexas.edu>, <linleyCnF4Ju.55q@netcom.com>, <2n9geh\$m32@hpscit.sc.hp.com>reston.a Subject : Re: obscenity...

In article <2n9geh\$m32@hpscit.sc.hp.com> spikes@sc.hp.com (Bill Spikes) writes:
>

>Hmmmmm, I've been TOLD that these language-impaired bozos were just the >guardians of the 'official' tune-up and testing frequencies. >

...keeping in mind, as you do, that malicious interference is illegal, whether or not you judge the communication being interfered with to have merit.

To say nothing of the fact that your carrier may interfere with efforts to bring enforcement actions against the offending stations.

Not to mention that if you really do make a nuisance of yourself, they will slide up or down a few kHz, probably on top of someone else. This means that you have now effectively even further reduced the amount of bandwidth available to civilized users.

All of which leads me to believe that the above is not an appropriate response to a newcomer's question about how to deal with inappropriate and anti-social behavior on the bands.

Gre	ž				
End	of	Info-Hams	Digest	V94	# 34